

## UNCLASSIFIED

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>									<b>DATE:</b> February 1999	
<b>APPROPRIATION/BUDGET ACTIVITY</b> RDT&E, Defense-Wide/07					<b>R-1 ITEM NOMENCLATURE</b> Minimum Essential Emergency Communications Network/0303131K					
COST (in millions)	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	Cost to Complete	Total Cost
Total Program Element (PE)	2.242	3.052	3.799	4.023	4.080	4.209	4.305	4.405	Contg	Contg
Strategic C3 Support/T70	2.242	2.020	2.683	2.797	2.835	2.943	3.010	3.080	Contg	Contg
Special Projects	0	1.032	1.116	1.226	1.245	1.266	1.295	1.325	Contg	Contg
<p><b>A. Mission Description and Budget Item Justification:</b> This PE has two primary missions. The first focuses on ensuring the implementation of national policy requiring Nuclear Command, Control and Communications (NC3) systems. It supports positive control of nuclear forces, and connectivity between the National Command Authorities (NCA), strategic, and other appropriate forces to assure adequate command and control is maintained throughout all phases of conflict and instability. This support also provides informed decision-making linkage between the NCA and the Commanders-in-Chief (CINCs) of the Unified and Specified Commands. DISA performs this task as Nuclear C3 (NC3) Systems Engineer. It specifically ensures a balanced, integrated capability is maintained. This mission provides direct long range and specialized support to OSD(C3I) and the Joint Staff (JS) for determining which programs should be supported and/or canceled, as well as supports fail safe and risk reduction. The second mission is performing the duties of Senior Leadership Travel Communications Systems Engineer for the President, SECDEF and SECSTATE. This includes making sure the executive aircraft fleet can support all the needs of these offices. This program element is under Budget Activity 07 because it involves efforts supporting operational systems development.</p>										
<b>B. Program Change Summary</b>					<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>		
Previous President's Budget (FY99)					2.242	3.061	3.237	3.437		
Appropriated Value					2.381	3.061				
Adjustments to Appropriated Value					-.139	-.009				
Adjustments to Budget Years Since FY99 President's Budget							+.562	+.586		
Current Budget Submit/President's Budget (FY00)					2.242	3.052	3.799	4.023		
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<b>APPROPRIATION/BUDGET ACTIVITY</b> RDT&E, Defense-Wide/07	<b>R-1 ITEM NOMENCLATURE</b> Minimum Essential Emergency Communications Network/0303131K	
<p>Change Summary Explanation:</p> <p>FY98 decrease due to below threshold reprogramming and undistributed congressional adjustments to Defense-wide RDT&amp;E appropriation.</p> <p>FY99 change due to undistributed congressional adjustments to Defense-wide RDT&amp;E appropriation.</p> <p>FY00 and FY01 increase due to realignment of a portion of funding from project S32, NMCS Command Center Engineering, PE 0302016K.</p>		
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Exhibit R-2a, RDT&E Project Justification									DATE: February 1999	
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07		PROGRAM ELEMENT Minimum Essential Emergency Communications Network (MEECN)/0303131K					PROJECT NAME AND NUMBER Strategic C3 Support/T70			
COST (in millions)	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	Cost to Complete	Total Cost
Project Cost	2.242	2.020	2.683	2.797	2.835	2.943	3.010	3.080	Contg	Contg
<p>A. <u>Mission Description &amp; Budget Item Justification</u>: This project has four elements: <u>strategic planning</u>, <u>operational assessments</u>, <u>communications plans</u>, and <u>airborne engineering</u>. Together, these elements perform all of the functions of the NC3 systems engineer and all of the NCA and Nuclear C3 support for ASD(C3I).</p> <p>The first element is Strategic Planning which is done for OSD(C3I) and the Joint Staff. These are long-range plans and vulnerability assessments done to ensure NC3 is always adequate under all conditions of stress or war. It evaluates the operational capability for the Nuclear Command and Control System (NCCS), i.e., strengths and weaknesses and determines the best investment strategy to evolve the current NCCS to achieve the desired capability. Threats—from terrorist activities—to regional—to global are considered. Fiscal constraints and other top level guidance are also significant factors influencing these plans.</p> <p>The second element is Operational Assessments of the fielded C3 systems and weapons platforms. This assessment is the sole means for positive verification of the communications plans, procedures, operations orders, training, equipment and system configuration from end-to-end. It includes both strategic and theater-to-national level C3 interfaces into the NC3 systems. The tests are performed in an operational setting with the Joint Staff, CINC and nuclear forces worldwide.</p> <p>The third element of this project is to maximize the operational readiness of the National Military Command Systems (NMCS) by developing communications plans, procedures, operations orders and Battle Staff certification, and keeping these plans and procedures accurate as policy and forces change. Under this element, Battle Staff proficiency is verified.</p> <p>The fourth element is Airborne Engineering which provides technical and management advice, planning support systems engineering, Test &amp; Evaluation (T&amp;E) in the design, development, deployment and evolution of NMCS airborne DII architecture. Leading edge airborne C4I technology is assessed. The interoperability of hardware and operational procedures for airborne C4I and information systems is tested and verified under this element. This is in support of the airborne National Command Authority (NCA) including Air Force One, the Special Airlift Mission, and CINC support aircraft.</p>										
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Exhibit R-2a, RDT&E Project Justification								DATE: February 1999		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT NAME AND NUMBER				
RDT&E, Defense-Wide/07		Minimum Essential Emergency Communications Network (MEECN)/0303131K				Strategic C3 Support/T70				
COST (in millions)	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	Cost to Complete	Total Cost
Project Cost	2.242	2.020	2.683	2.797	2.835	2.943	3.010	3.080	Contg	Contg
<p><u>FY 1998 Accomplishments:</u></p> <ul style="list-style-type: none"> <li>o Continued NC3 Operational Assessments/Positive Command and Control (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$1,163K)</li> <li>o Continued selected communications plans, updating and certifications (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$436K)</li> <li>o Continued NC3 communication requirement for proliferation (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$505K)</li> <li>o Validated new architecture to implement commercial-off-the-shelf (COTS) equipment into NC3 (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$138K)</li> <li>o Total \$2.242M</li> </ul> <p><u>FY 1999 Plans:</u></p> <ul style="list-style-type: none"> <li>o Continue NC3 Operational Assessments/Positive Command and Control (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$1,075K)</li> <li>o Continue selected communications plans, updating and certifications (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$385K)</li> <li>o Continue NC3 communication requirement for proliferation (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$446K)</li> <li>o Validate new architecture to implement COTS equipment into NC3 (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$114K)</li> <li>o Total \$2.020M</li> </ul> <p><u>FY 2000 Plans:</u></p> <ul style="list-style-type: none"> <li>o Continue NC3 Operational Assessments/Positive Command and Control (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$821K)</li> <li>o Continue selected communications plans, updating and certifications (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$518K)</li> <li>o Continue NC3 communication requirement for proliferation (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$599K)</li> <li>o Validate new architecture to implement COTS equipment into NC3 (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$164K)</li> <li>o Airborne NII Architecture (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$312K)</li> <li>o Airborne fiber distribution (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$269K)</li> <li>o Total \$2.683M</li> </ul>										

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>									<b>DATE:</b> February 1999																	
<b>APPROPRIATION/BUDGET ACTIVITY</b> RDT&E, Defense-Wide/07		<b>PROGRAM ELEMENT</b> Minimum Essential Emergency Communications Network (MEECN)/0303131K					<b>PROJECT NAME AND NUMBER</b> Strategic C3 Support/T70																			
COST (in millions)	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	Cost to Complete	Total Cost																
Project Cost	2.242	2.020	2.683	2.797	2.835	2.943	3.010	3.080	Contg	Contg																
<p><u>FY 2001 Plans:</u></p> <ul style="list-style-type: none"> <li>o Continue NC3 Operational Assessments/Positive Command and Control (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$1,131K)</li> <li>o Continue selected communications plans, updating and certifications (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$541K)</li> <li>o Continue NC3 communication requirement for proliferation (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$626K)</li> <li>o Validate new architecture to implement COTS equipment into NC3 (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$171K)</li> <li>o ATM low bandwidth satellite integration plan (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$164K)</li> <li>o Conformal antenna technology insertion plan (1<sup>st</sup> Qtr - 4<sup>th</sup> Qtr; \$164K)</li> <li>o Total \$2.797M</li> </ul> <p>B. <u>Other Program Funding Summary:</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right; padding-right: 10px;"><u>FY98</u></td> <td style="text-align: right; padding-right: 10px;"><u>FY99</u></td> <td style="text-align: right; padding-right: 10px;"><u>FY00</u></td> <td style="text-align: right; padding-right: 10px;"><u>FY01</u></td> <td style="text-align: right; padding-right: 10px;"><u>FY02</u></td> <td style="text-align: right; padding-right: 10px;"><u>FY03</u></td> <td style="text-align: right; padding-right: 10px;"><u>FY04</u></td> <td style="text-align: right; padding-right: 10px;"><u>FY05</u></td> </tr> <tr> <td style="text-align: right;">Operations and Maintenance:</td> <td style="text-align: right;">0.905</td> <td style="text-align: right;">1.037</td> <td style="text-align: right;">1.608</td> <td style="text-align: right;">1.596</td> <td style="text-align: right;">1.518</td> <td style="text-align: right;">1.040</td> <td style="text-align: right;">1.089</td> </tr> </table> <p>C. <u>Acquisition Strategy:</u> MITRE Corporation, McLean, VA; Raytheon E-Systems, Arlington, VA; Science Applications International Corporation (SAIC), McLean, VA; Booz-Allen Hamilton, Inc.; McLean, VA.</p> <p>D. <u>Schedule Profile:</u> Events cited below occurred in each fiscal year (1998-2005).</p> <ul style="list-style-type: none"> <li>1<sup>st</sup> Qtr - Strategic Mobile Command Center Operation Order completed for JS.</li> <li>1<sup>st</sup> Qtr - Strategic Communications Assessment (Polo Hat) completed for JS.</li> <li>1<sup>st</sup> Qtr - JS/CINC Staff Assistance Exercise (CINCSPACE, CINCSTRAT, National Airborne Operation Center).</li> <li>1<sup>st</sup> Qtr - OSD(C3I) NC3 Review Report.</li> <li>1<sup>st</sup> Qtr - Non-Strategic Communications Exercise completed for JS.</li> <li>1<sup>st</sup> Qtr - Final NC3 System Description completed for JS.</li> <li>1<sup>st</sup> Qtr - Assist in NCA and Nuclear C3 Aircraft modernization and overhaul.</li> </ul>											<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>	Operations and Maintenance:	0.905	1.037	1.608	1.596	1.518	1.040	1.089
<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>																			
Operations and Maintenance:	0.905	1.037	1.608	1.596	1.518	1.040	1.089																			
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APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07		PROGRAM ELEMENT Minimum Essential Emergency Communications Network (MEECN)/0303131K				PROJECT NAME AND NUMBER Strategic C3 Support/T70				
COST (in millions)	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	Cost to Complete	Total Cost
Project Cost	2.242	2.020	2.683	2.797	2.835	2.943	3.010	3.080	Contg	Contg
<p>2<sup>nd</sup> Qtr - NC3 Systems Engineer Annual Report to OSD(C3I).</p> <p>2<sup>nd</sup> Qtr - JS/CINC Staff Assistance Exercise (CINCPAC).</p> <p>2<sup>nd</sup> Qtr - Strategic Communications Assessment (Polo Hat) completed for JS.</p> <p>2<sup>nd</sup> Qtr - Non-Strategic Communications Evaluation (CINCEUR).</p> <p>2<sup>nd</sup> Qtr - Assist in NCA and Nuclear C3 Aircraft modernization and overhaul.</p> <p>3<sup>rd</sup> Qtr - Strategic Communications Assessment (Polo Hat) completed for JS.</p> <p>3<sup>rd</sup> Qtr - Emergency Communications Procedures CJCS, Emergency Action Procedures (EAP) Vol. 7 completed for JS.</p> <p>3<sup>rd</sup> Qtr - Assist in NCA and Nuclear C3 Aircraft modernization and overhaul.</p> <p>4<sup>th</sup> Qtr - Complete Early Pentagon Connectivity Modernization.</p> <p>4<sup>th</sup> Qtr - NMCS/DOD Emergency Communications Plan completed for JS.</p> <p>4<sup>th</sup> Qtr - Assist in NCA and Nuclear C3 Aircraft modernization and overhaul.</p>										
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Exhibit R-3 Cost Analysis										DATE: February 1999		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT					PROJECT NAME AND NUMBER					
RDT&E, Defense-Wide/07		Minimum Essential Emergency Communications Network (MEECN)/0303131K					Strategic C3 Support/T70					
Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 99 Cost	FY 99 Award Date	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering	SS/C CPAF CPFF MIPR	Multiple Performing Activities	2.242	2.020	12/98	2.683	12/99	2.797	12/00	Contg.	Contg.	N/A

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APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07		PROGRAM ELEMENT Minimum Essential Emergency Communications Network (MEECN)/0303131K				PROJECT NAME AND NUMBER Special Projects/T64				
COST (in millions)	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	Cost to Complete	Total Cost
Project Cost	0	1.032	1.116	1.226	1.245	1.266	1.295	1.325	Contg	Contg
<p>A. <u>Mission Description &amp; Budget Item Justification</u>: All aspects of this project are classified and require special access. Therefore, information on this project is not contained in this document but can be obtained upon request.</p> <p>B. <u>Other Program Funding Summary</u>: N/A.</p> <p>C. <u>Acquisition Summary</u>: Information may be provided upon request.</p> <p>D. <u>Schedule Profile</u>: Information may be provided upon request.</p>										
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APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07			PROGRAM ELEMENT Minimum Essential Emergency Communications Network (MEECN)/0303131K					PROJECT NAME AND NUMBER Special Projects/T64				
Support Costs												
<u>Cost Category</u>	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total PYs Cost</u>	<u>FY 99 Cost</u>	<u>FY99 Award Date</u>	<u>FY 00 Cost</u>	<u>FY00 Award Date</u>	<u>FY 01 Cost</u>	<u>FY01 Award Date</u>	<u>Cost To Complete</u>	<u>Total Cost</u>	<u>Total Value of Contract</u>
Systems Engineering	SS/C CPAF CPFF MIPR	Multiple Performing Activities	0	1.032	06/99	1.116	06/00	1.226	06/01	Contg.	Contg.	N/A

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